

WHAT IS CLAIMED IS:

1. A method for restoration of male fertility to cytoplasmic male sterile plants; which comprises the steps of:
 - a) introducing into the nucleus of a plant cell a gene construct essentially consisting of a sequence encoding a mitochondrial transit peptide fused upstream of and in frame with an edited form of a normal mitochondrial gene that is co-transcribed with an unusual CMS-associated mitochondrial gene;
 - b) selecting for plant cells that have acquired the gene construct in step a); and
 - c) inducing regeneration of selected plant cells to produce a mature plant.
2. The method of claim 4, wherein the plant is *Brassica napus*.
3. The method of claim 4, wherein step b) is effected using a plant transformation vector.
4. A method for restoration of male fertility to polima cytoplasmic male sterile *B. napus*; which comprises the steps of:
 - a) introducing into the nucleus of a *B. napus* plant cell a gene construct essentially consisting of a sequence encoding a mitochondrial transit peptide fused upstream of and in frame with, an edited form of an *atp6* gene of *B. napus* mitochondria;
 - b) selecting for plant cells that have acquired the gene construct in step a); and
 - c) inducing regeneration of selected plant cells to produce a mature plant.

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